

We claim:

- 1 1. A method for transmitting DSI and NDSI over a communication link of a
2 communication network, the method comprising the steps of:
3 transmitting fragmented NDSI in accordance with a network protocol
4 where the fragmenting is based on parameters of received DSI and is performed in
5 accordance with a network layer protocol.
- 1 2. The method of claim 1 wherein the step of transmitting NDSI comprises:
2 calculating a fragmentation requirement for each received initial DSI;
3 reviewing the fragmentation requirements of the received DSI after a new
4 DSI requirement was calculated or after transmission of a DSI was
5 terminated to determine a fragmentation requirement that is most
6 restrictive; and
7 altering the fragmenting of NDSI to comply with the most
8 restrictive fragmentation requirement.
- 1 3. The method of claim 1 further comprising the step of transmitting DSI in accordance
2 with required timing relationships and transmitting NDSI in a non-fragmented manner
3 when there are no DSI to be transmitted.
- 1 4. The method of claim 1 where the network protocol is an OSI-based layer 3 protocol.
- 1 5. The method of claim 1 where the fragmenting is further based on information rate of
2 the communication link.
- 1 6. The method of claim 1 where the parameters of the received DSI comprise such
2 variables as information compression, sample rate of DSI, number of communication

